

TA-V701

SERVICE MANUAL

AEP Model
UK Model
E Model

This set is the stereo
amplifier section in
LBT-V701/V701CD/V701CDG.



SPECIFICATIONS

Amplifier (TA-V701)

Continuous RMS power output (AEP, UK, West Germany, Italian model)

60 W + 60 W (at 1 kHz, 5% T.H.D.)

Peak music power output: 600 W (E, Saudi Arabia model)

Inputs

	Jack type	Sensitivity	Impedance
PHONO IN	Phono	3 mV	50 kohms
VIDEO/DAT IN	Phono	200 mV	50 kohms
CD IN	Phono	200 mV	50 kohms
TAPE IN	Phone	200 mV	50 kohms
MIC	Phone	1 mV	10 kohms

Outputs

	Jack type	Voltage	Impedance
VIDEO/DAT	Phono	200 mV	470 ohms
SURROUND SPEAKER	Phono	Accepts speakers of 6 ohms to 16 ohms.	
HEADPHONES	Stereo phone	Accepts headphones of 8 ohms or more.	

General

Power requirement (AEP, West Germany, Italian model) : 220V AC, 50Hz

(E, Saudi Arabia model) : 120, 220 or 240V, adjustable, 50/60Hz

(UK model) : 240V, 50/60Hz

Power consumption (AEP, West Germany, Italian model) : 110W

(E, Saudi Arabia model) : 140W

(UK model) : 240W

AC outlet (AEP, West Germany, Italian model) : 2 unswitched, total 100W max.

(E, Saudi Arabia model) : 2 switched, total 100W max.

(UK model) : 1 unswitched, 100W max.

Accessories supplied

Remote commander (1)

Batteries Sony SUM-3 (NS) (2)

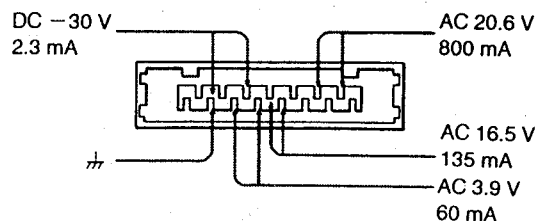
AM loop antenna (1)

FM wire antenna (Except for West Germany model) (1)

45-rpm adaptor (1)

SYSTEM CONTROL connector

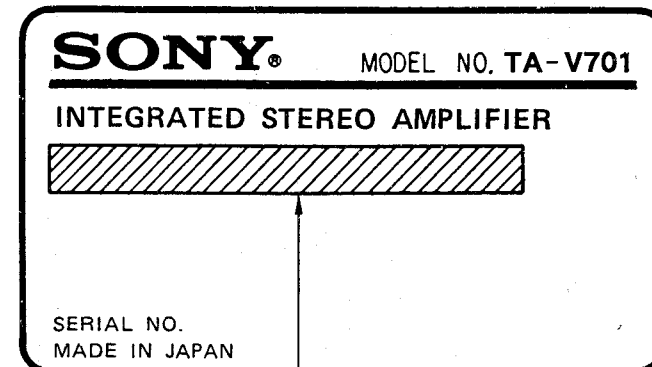
SYSTEM CONTROL 2: 15-pin



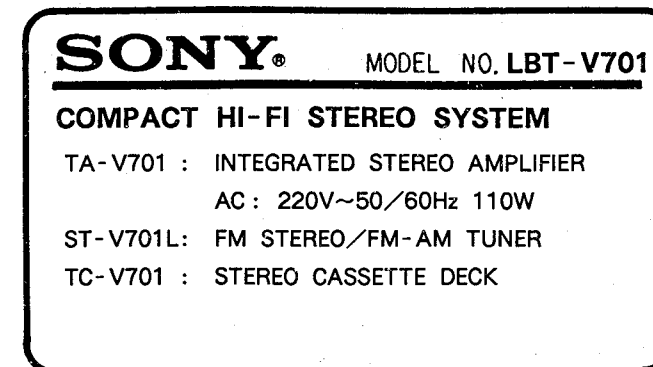
STEREO AMPLIFIER
SONY

MODEL IDENTIFICATION

— Specification Label —



West Germany Model :



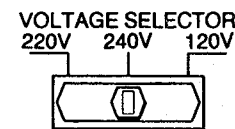
AEP Model : AC : 220V~50/60Hz
 Italian Model : AC : 220V~50/60Hz 110W
 UK Model : AC : 220V~50/60Hz
 E, Saudi Arabia Model : AC : 120/220/240V~50/60Hz 140W

SERVICING NOTES

On operating voltage

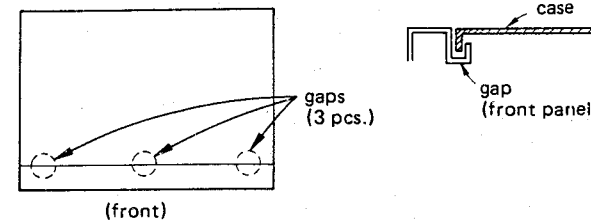
Before operating the unit, check that the operating voltage of your unit is identical with the voltage of your local power supply.

Where purchased	Operating voltage
AEP, West Germany Italian Model	220 V AC
UK Model	240 V AC
E, Saudi Arabia Model	120, 220 or 240 V AC, adjustable with the voltage selector on the rear.



On removing the case

Remove the case by lifting it up straightly above.
 Unbalanced lifting damages gaps of the front panel assembly for supporting the case.

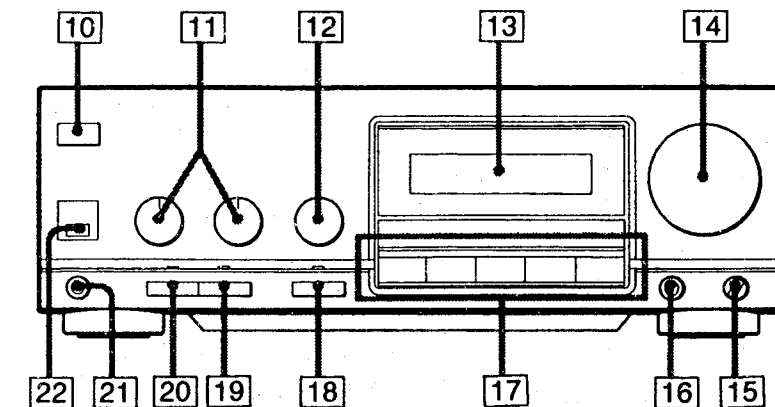


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

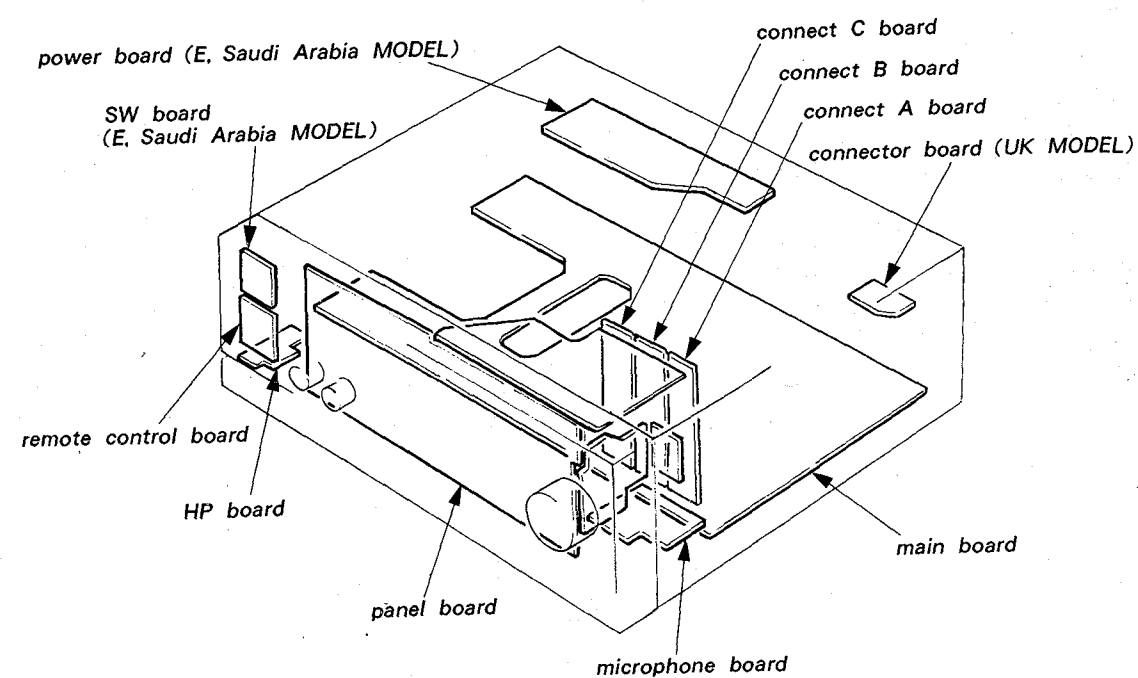
PARTS IDENTIFICATION



- 10 POWER switch (AEP, UK, West Germany, Italian model)
SYSTEM POWER switch (E, Saudi Arabia model)
- 11 Tone controls (BASS and TREBLE)
- 12 BALANCE control
- 13 Function display
- 14 VOLUME control
- 15 MIC (microphone) LEVEL control
- 16 MIC (microphone) jack
- 17 FUNCTION CONTROL buttons
- 18 EQ REC (equalizer recording) switch
- 19 SURROUND button
- 20 DBFB (Dynamic Bass FeedBack) button (AEP, UK, West Germany, Italian model)
SAT (Super Acoustic Turbo) button (E, Saudi Arabia model)
- 21 HEADPHONES jack
- 22 Remote control sensor

SECTION 2 DIAGRAMS

2-1. PC BOARD LOCATION

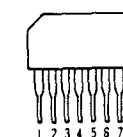


2-2. SEMICONDUCTOR LEAD LAYOUTS

GP1U52XB



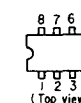
M5218L
μ PC1237HA



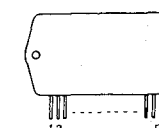
2SK246BL



LB1639
μ PC4570C



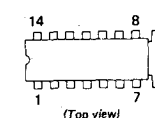
STK4152 II
STK4192 II



HZS6B1L
UZL-27M



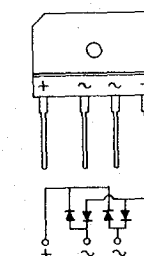
LC4066BH



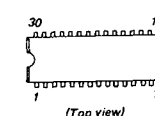
DTA124ES
2SC2785HFE
2SC3330-S
2SC3400



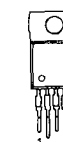
RBV-602-11



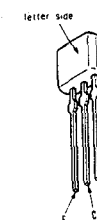
LC7818



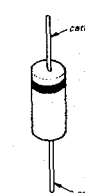
L78MR05



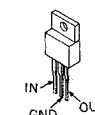
2SA1317



RD5.1FB2
US1060M
10E2N



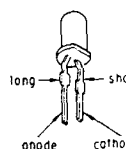
M5F7810
M5F7812



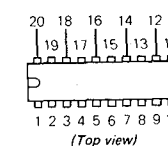
2SB1187F



SEL1222R-C
SEL2410E-D
SEL4225RM-D
SEL4825WMCD



M50721-127P



2SC1841
2SC3622AL



2-3. PRINTED WIRING BOARDS

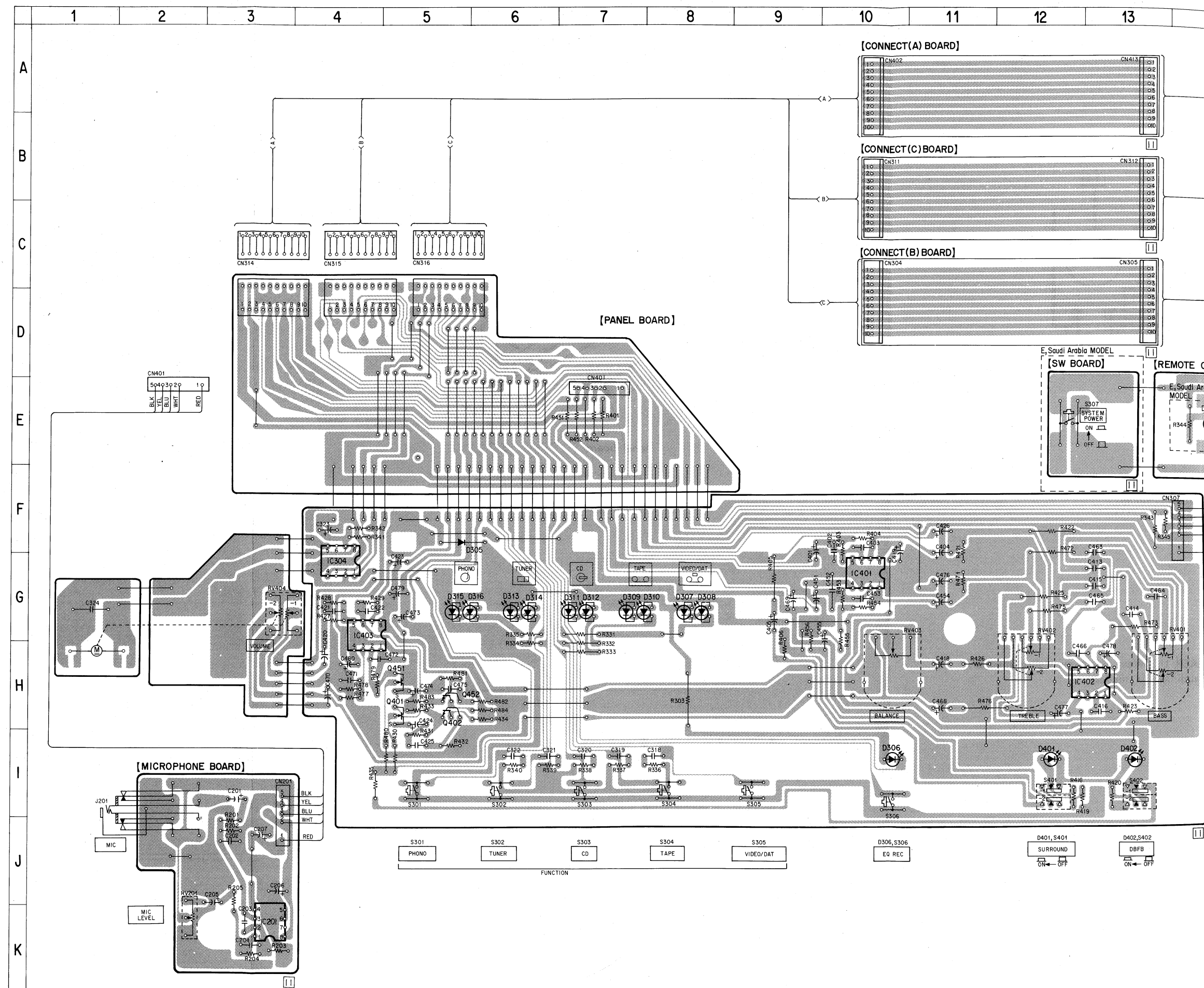
● See page 5 for Semiconductor Lead Layouts.

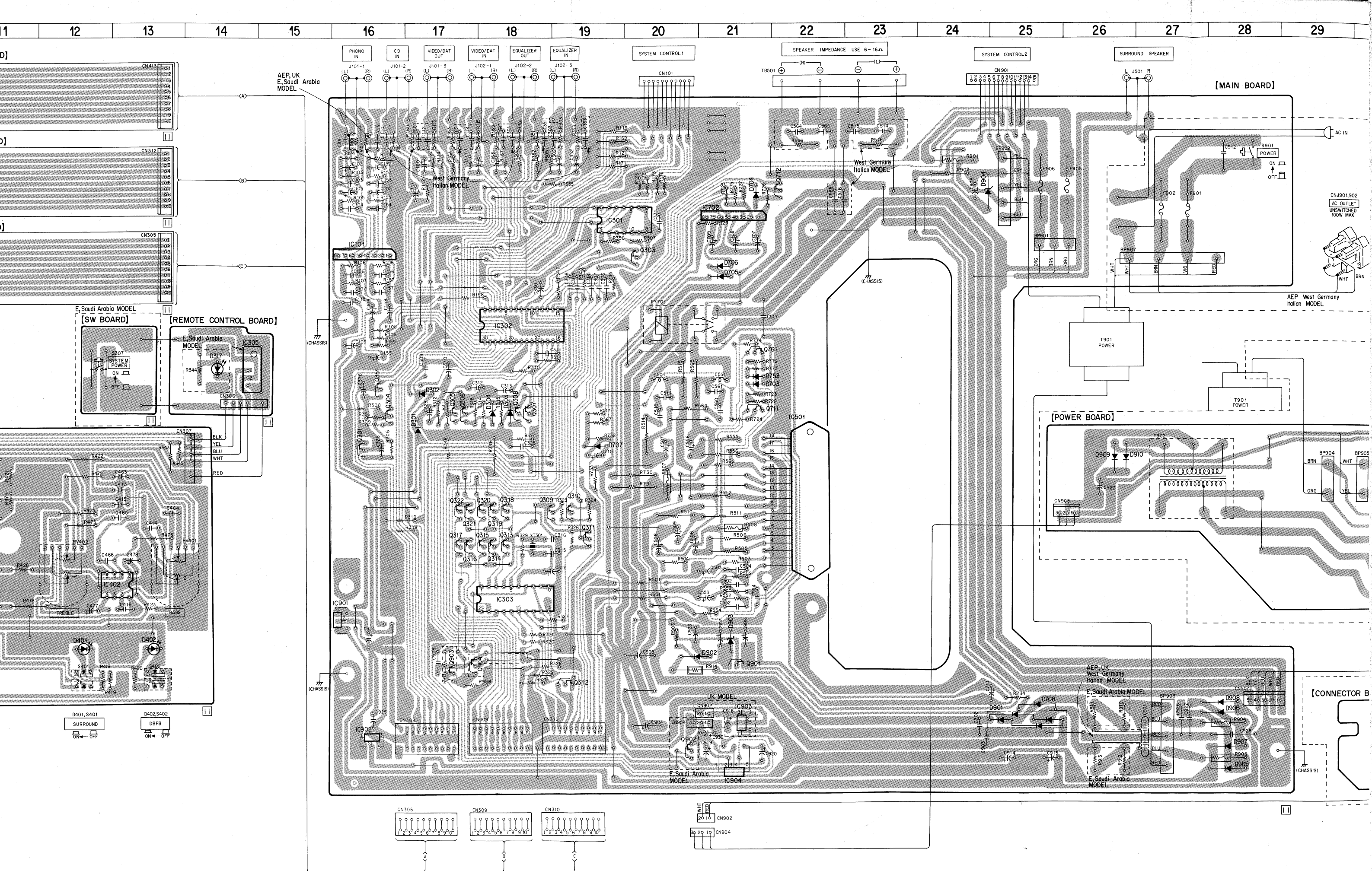
● Semiconductor Location

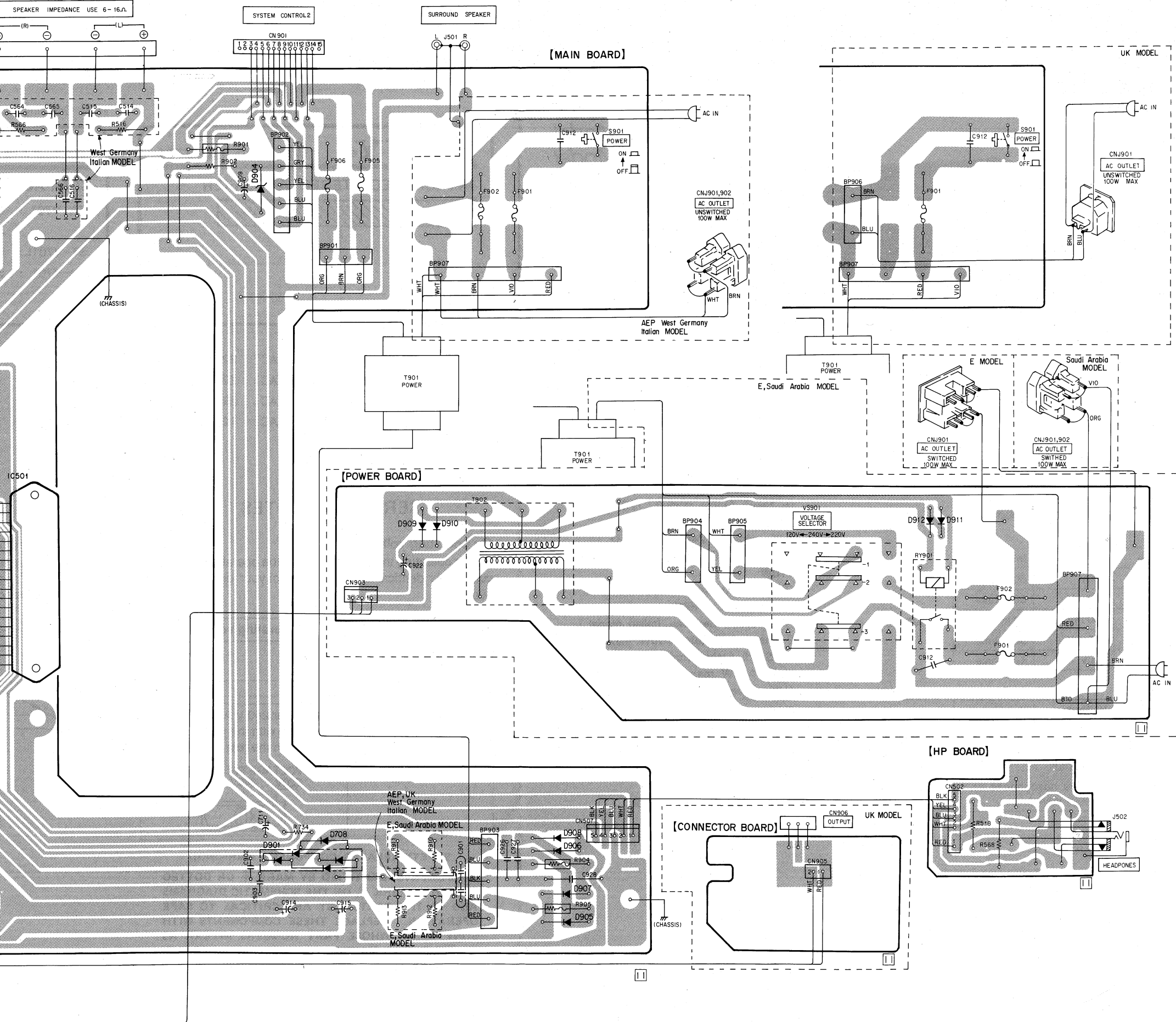
Ref. No.	Location	Ref. No.	Location
D301	F-17	IC305	E-14
D302	E-17	IC401	G-10
D303	F-18	IC402	H-13
D304	F-18	IC403	G-4
D305	F-5	IC501	G-22
D306	I-10	IC702	C-21
D307	G-8	IC901	H-16
D308	G-8	IC902	J-16
D309	G-7	IC903	J-21
D310	G-8	IC904	J-21
D311	G-7		
D312	G-7	Q301	F-16
D313	G-6	Q303	C-20
D314	G-6	Q304	F-16
D315	G-5	Q305	F-17
D316	G-6	Q306	F-17
D317	E-14	Q307	F-18
D401	I-12	Q308	F-18
D402	I-13	Q309	G-19
D703	E-21	Q310	G-19
D704	C-21	Q311	G-19
D705	C-21	Q312	I-19
D706	C-21	Q313	G-18
D707	F-19	Q314	G-18
D708	J-25	Q315	G-18
D753	E-21	Q316	G-17
D901	J-25	Q317	G-17
D902	I-20	Q318	G-18
D903	I-21	Q319	G-18
D904	C-24	Q320	G-18
D905	J-28	Q321	G-17
D906	J-28	Q322	G-17
D907	J-28	Q351	E-16
D908	J-28	Q401	H-5
D909	F-26	Q402	H-5
D910	F-26	Q451	H-5
D911	F-32	Q452	H-5
D912	F-32	Q711	F-21
		Q712	C-22
IC101	C-16	Q761	E-21
IC201	K-3	Q901	I-21
IC301	C-19	Q902	J-20
IC302	D-18	Q903	I-17
IC303	H-18	Q904	I-17
IC304	G-4		

Note:

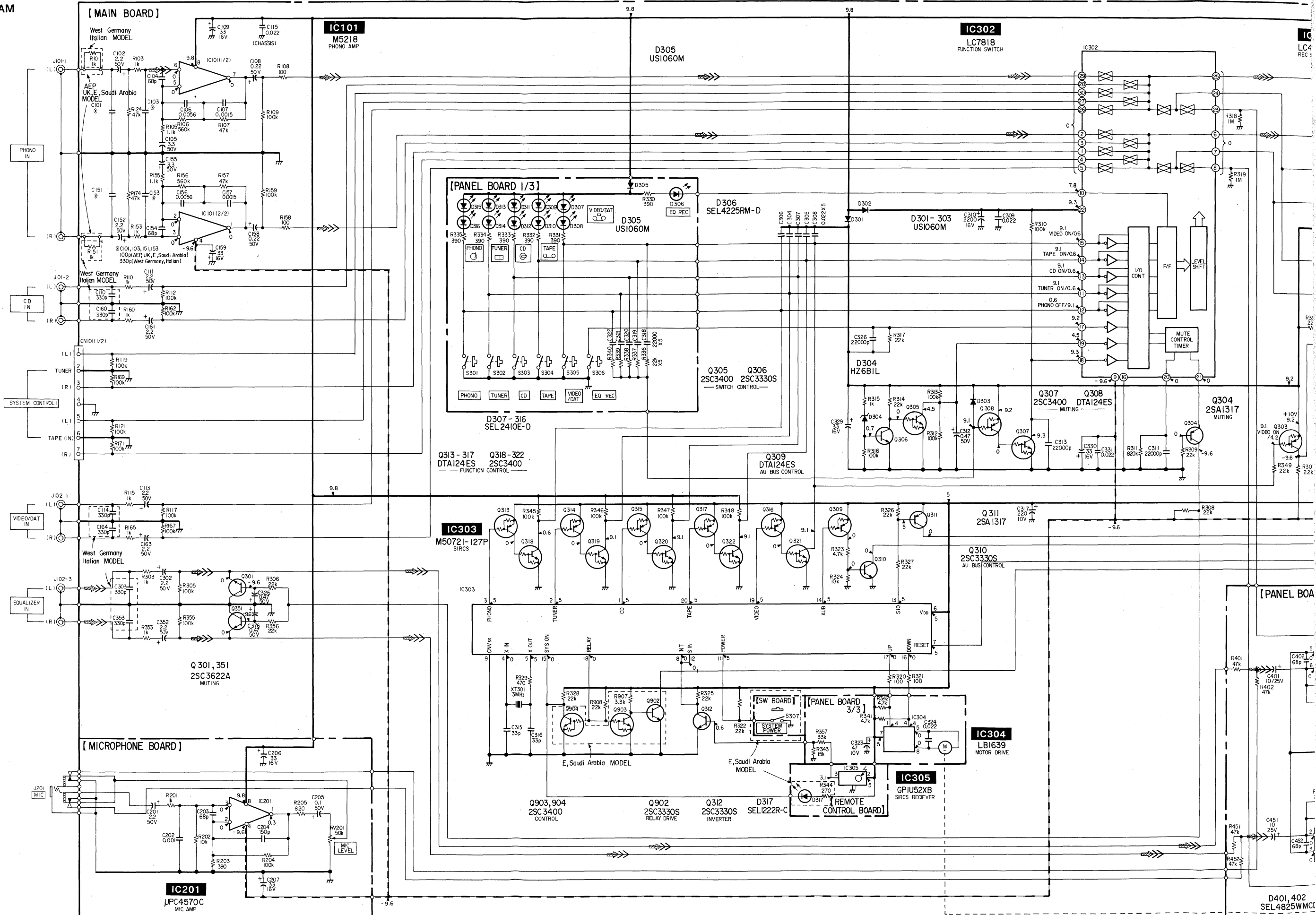
● ○ : parts extracted from the component side.

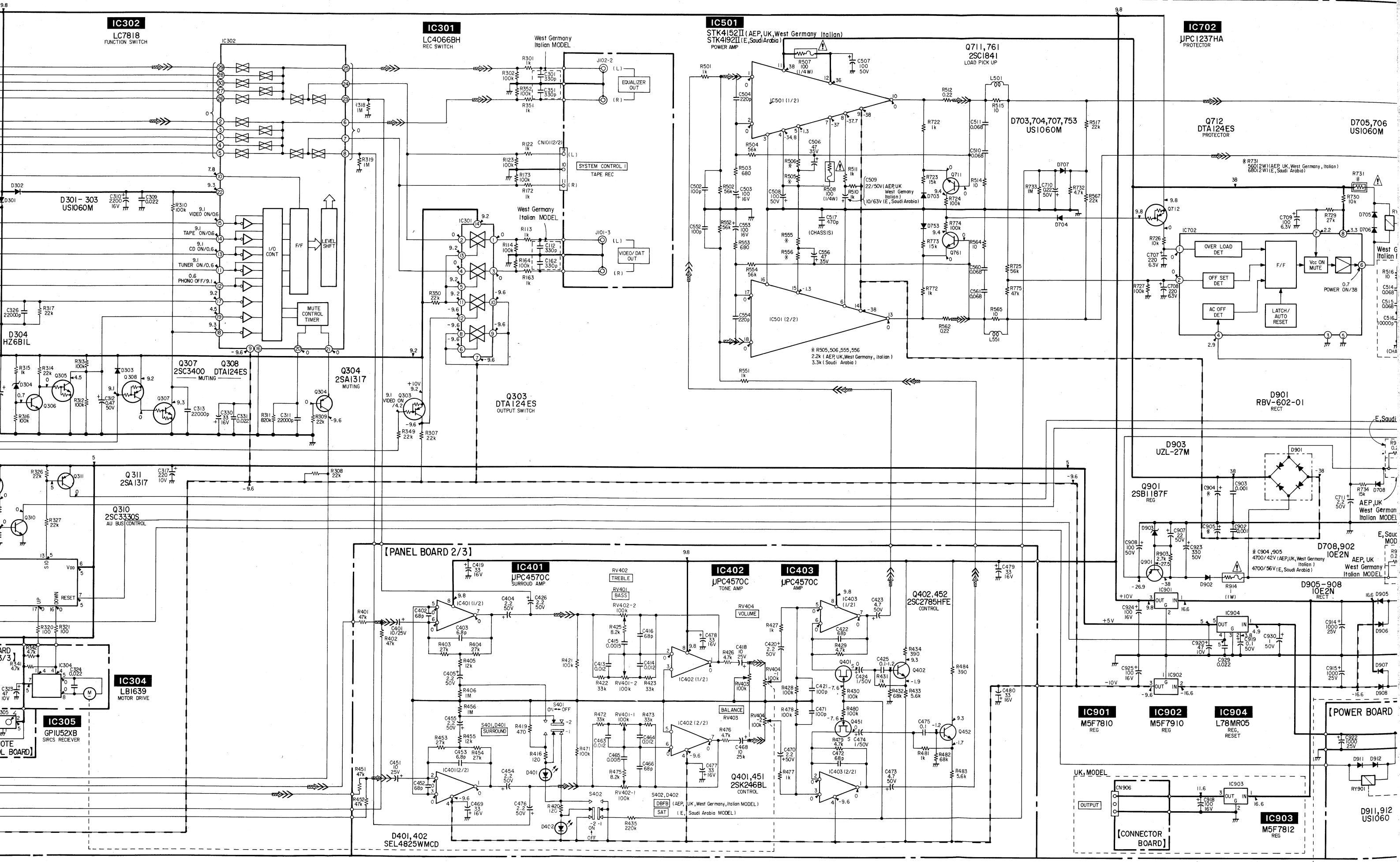


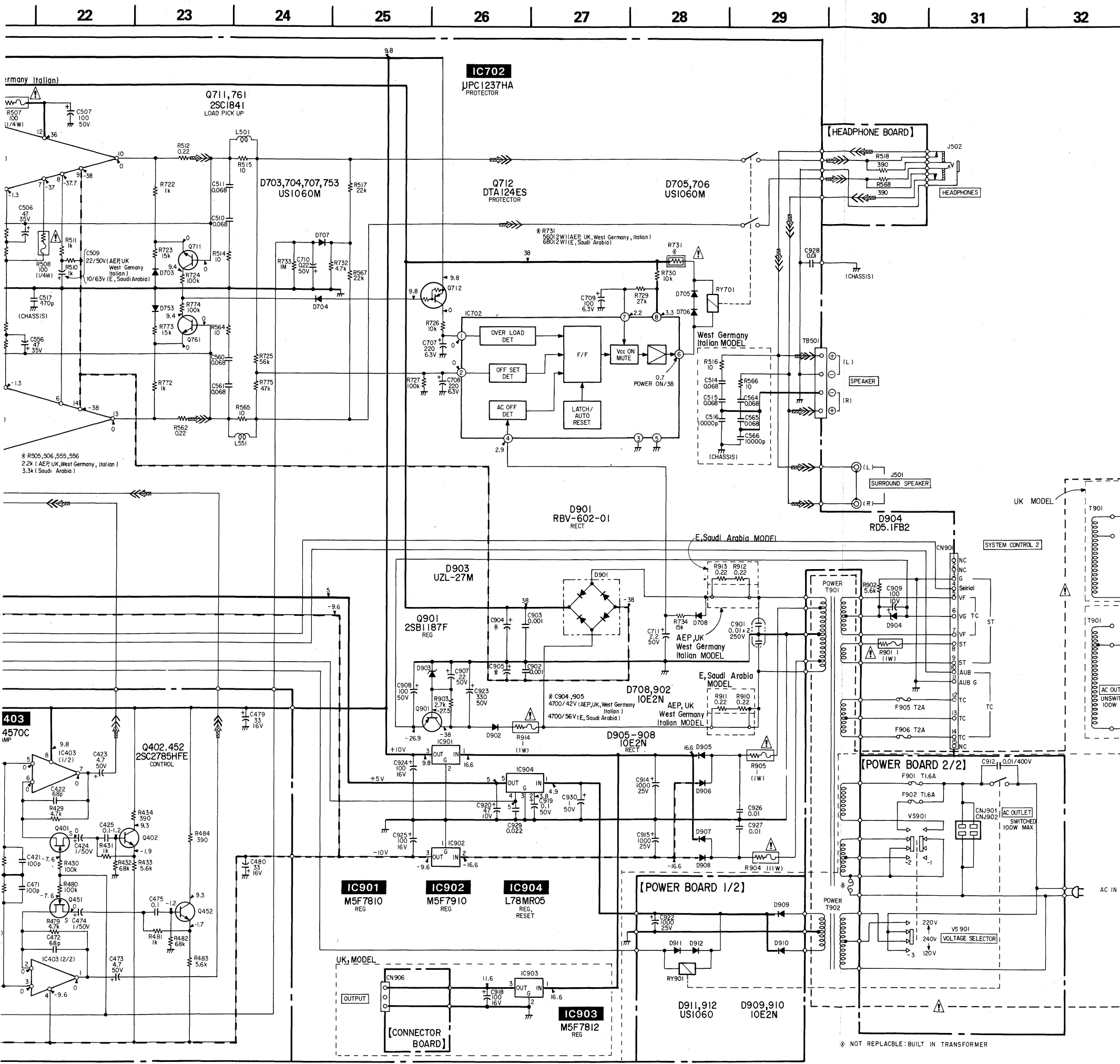




【 MAIN BOARD 】







Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (input impedance 10M Ω) Voltage variations may be noted due to normal production tolerances.
- Signal path.
- : PHONO
- : B+ Line
- : B- Line

Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

SECTION 3

EXPLODED VIEWS

NOTE:



- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:
(RED) ... KNOB, BALANCE (WHITE)

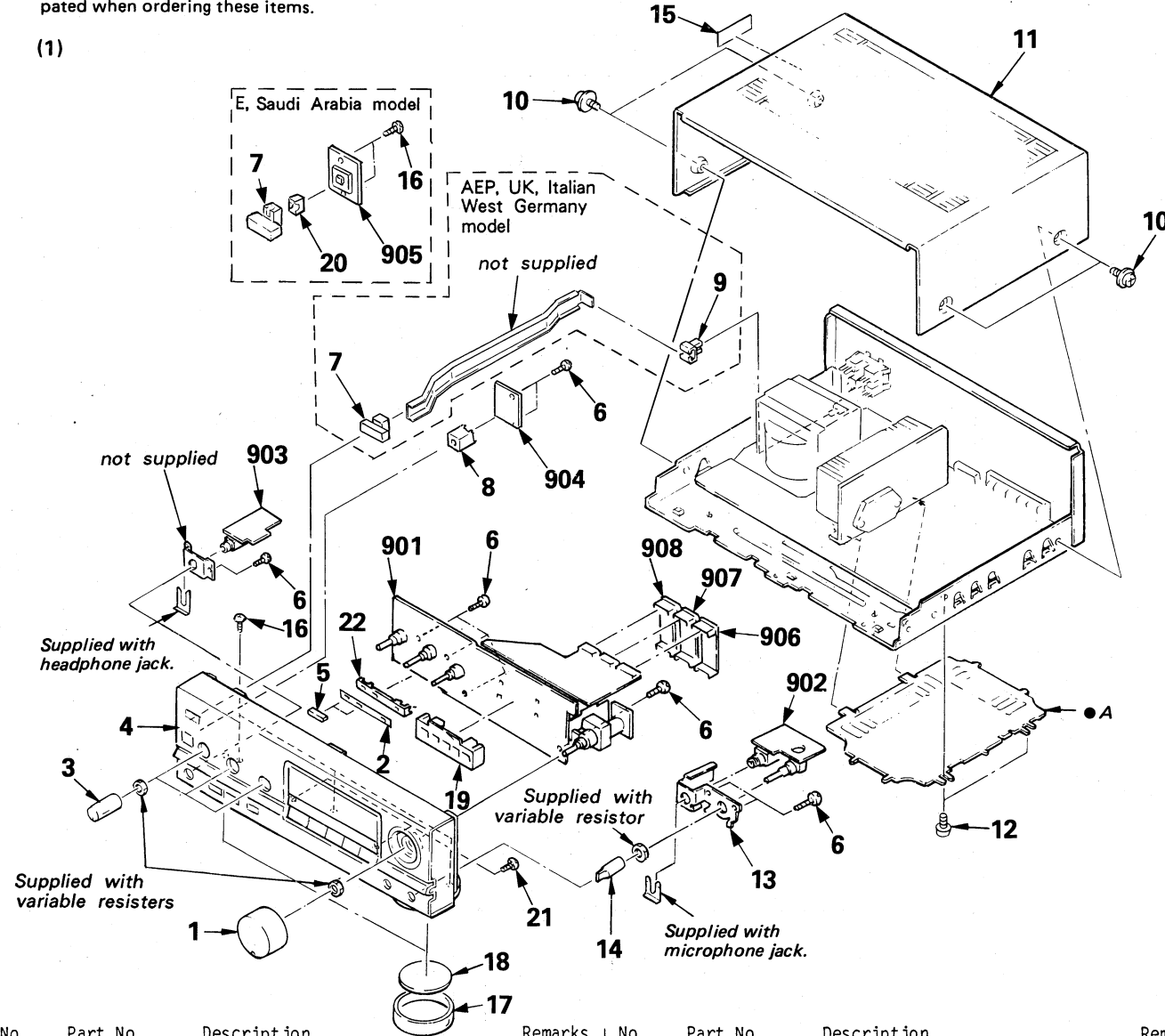
Cabinet's Color

Parts Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

- WG : West Germany
- IT : Italian

(1)





<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
1	4-925-121-42	KNOB (V2)	
2	*4-928-410-01	PLATE, LIGHT INTERCEPTION	
3	4-925-188-01	KNOB (TONE)	
4	X-4917-267-1	(AEP,UK,WG,IT)....PANEL ASSY, FRONT	
	X-4917-268-1	(E,Saudi Arabia)...PANEL ASSY, FRONT	
5	4-928-490-01	BUTTON	
6	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
7	4-921-919-01	(AEP,UK,WG,IT)....BUTTON (POWER)	
	4-921-919-11	(E,Saudi Arabia)...BUTTON (POWER)	
8	*4-925-182-01	(E,Saudi Arabia)...HOLDER (W), LED	
9	4-866-342-00	(AEP,UK,WG,IT)....JOINT (B), KNOB	
10	3-704-366-01	SCREW (CASE) (M3X8)	
11	4-919-378-31	CASE	
12	7-682-548-04	SCREW +BVTP 3X8 (S)	

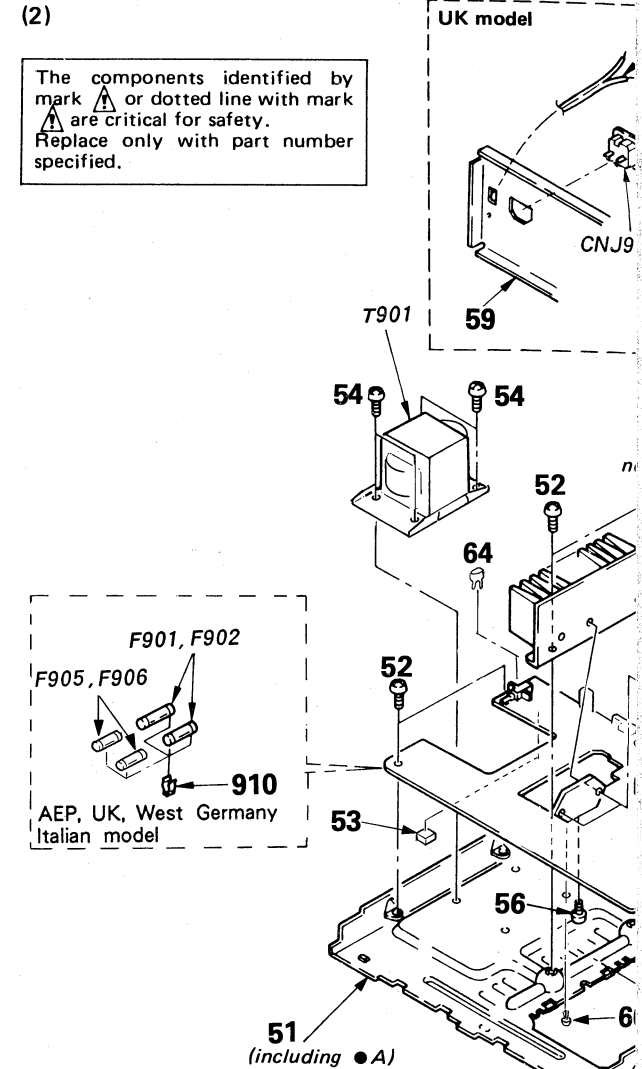
No.	Part No.	Description	Remarks
13	*4-928-413-01	BRACKET (MIC)	
14	4-921-921-01	KNOB (M)	
15	*3-703-079-21	(UK)...LABEL CAUTION (BACK)	
16	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
17	X-4917-252-1	PLATE (LEG) ASSY, ORNAMENTAL	
18	4-928-401-01	FELT	
19	*4-928-496-01	HOLDER (F), LED	
20	*4-881-725-00	(E,Saudi Arabia)...RING (TACT), FLEXIBLE	
21	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
22	*4-925-193-01	HOLDER (D), LED	
901	*A-4333-217-A	MOUNTED PCB, PANEL	
902	*1-631-084-11	PC BOARD, MICROPHONE	
903	*1-631-090-11	PC BOARD, HP	
904	*1-631-085-11	PC BOARD, REMOTE CONTROL	
905	*1-631-086-11	(E,Saudi Arabia)...PC BOARD, SW	

— 17 —

(2)

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



JK model



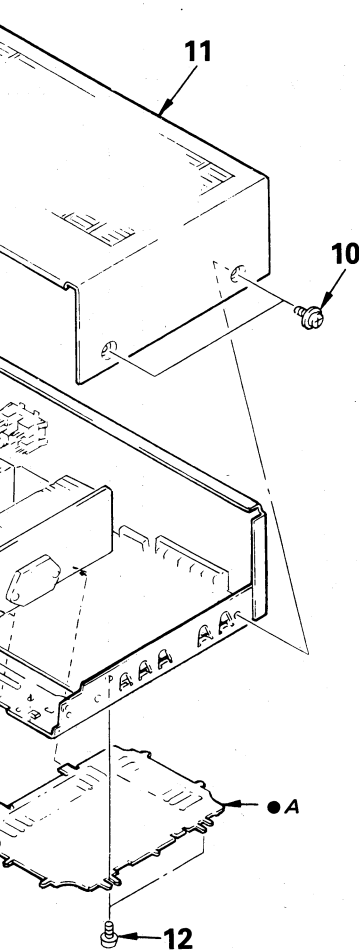
No.	Part No.	Description	Remark
51	*X-4917-246-1	CHASSIS ASSY	
52	7-682-548-04	SCREW +BVTT 3X8 (S)	
53	9-911-843-XX	RUBBER, CUSHION	
54	7-682-560-04	SCREW +BVTT 4X6 (S)	
55	3-703-571-11	(E)...BUSHING (S) (4516), CORD	
	*3-703-244-00	(AEP,UK,WG,Saudi Arabia,IT) ...BUSHING (2104), CORD	
56	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
57	3-706-165-00	SCREW	
58	7-621-849-00	SCREW, TAPPING	
59	*4-928-482-11	(AEP).....PANEL, BACK	
	*4-928-482-21	(UK).....PANEL, BACK	
	*4-928-482-31	(E).....PANEL, BACK	
	*4-928-482-41	(WG).....PANEL, BACK	
	*4-928-482-51	(Saudi Arabia)...PANEL, BACK	
	*4-928-482-61	(IT).....PANEL, BACK	
60	4-917-239-01	RIVET, NYLON	
61	X-4917-254-1	FOOT ASSY	
62	3-703-685-21	SCREW (+BV 3X8)	
63	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
64	*4-875-455-31	(AEP,UK,WG,IT)..COVER(DIA.20), CAPACIT	
65	4-870-539-00	PLATE, GROUND	
906	*1-631-091-11	PC BOARD, CONNECT (A)	
907	*1-631-092-11	PC BOARD, CONNECT (B)	
908	*1-631-093-11	PC BOARD, CONNECT (C)	

SECTION 4



ELECTRICAL PARTS LIST

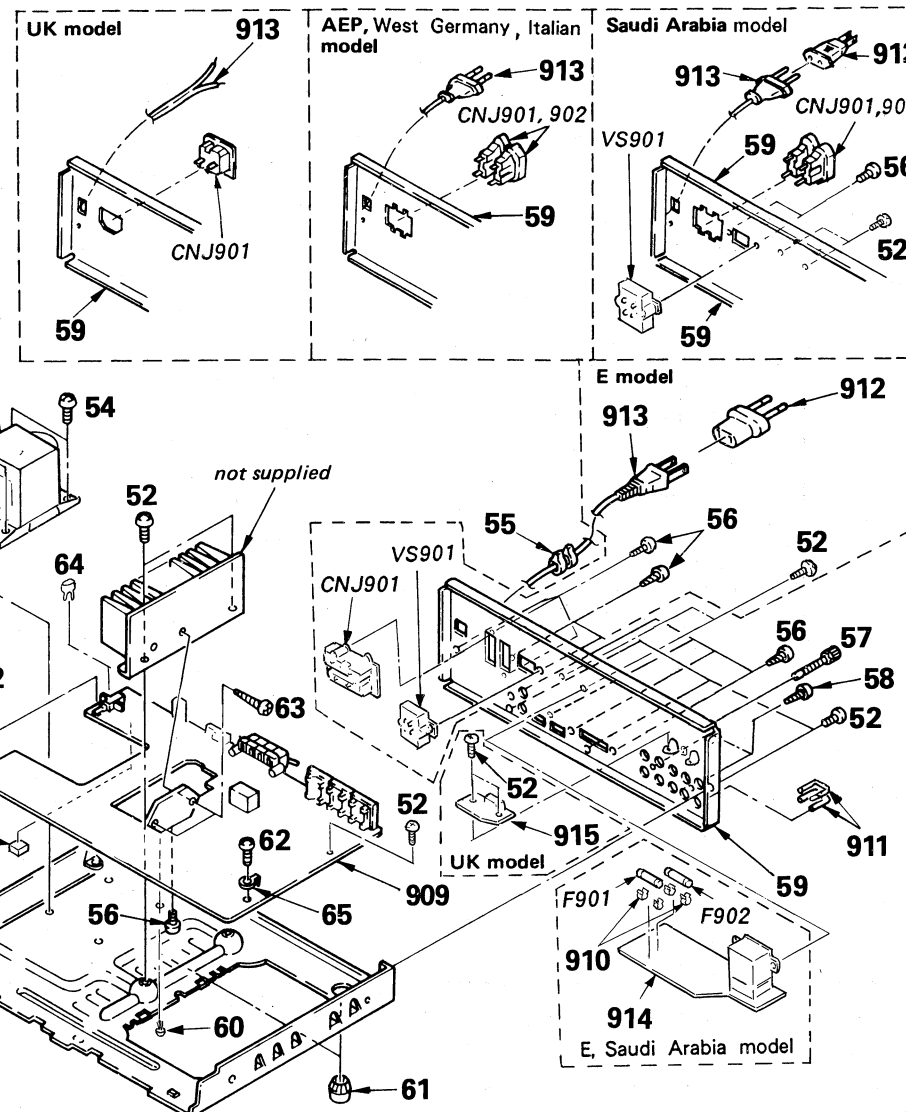
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

- WG : West Germany
- IT : Italian



(2)

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.



No.	Part No.	Description	Remarks
51	*X-4917-246-1	CHASSIS ASSY	
52	7-682-548-04	SCREW +BVTT 3X8 (S)	
53	9-911-843-XX	RUBBER, CUSHION	
54	7-682-560-04	SCREW +BVTT 4X6 (S)	
55	3-703-571-11	(E)...BUSHING (S) (4516), CORD	
	*3-703-244-00	(AEP,UK,WG,Saudi Arabia,IT) ...BUSHING (2104), CORD	
56	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
57	3-706-165-00	SCREW	
58	7-621-849-00	SCREW, TAPPING	
59	*4-928-482-11	(AEP).....PANEL, BACK	
	*4-928-482-21	(UK).....PANEL, BACK	
	*4-928-482-31	(E).....PANEL, BACK	
	*4-928-482-41	(WG).....PANEL, BACK	
	*4-928-482-51	(Saudi Arabia)...PANEL, BACK	
	*4-928-482-61	(IT).....PANEL, BACK	
60	4-917-239-01	RIVET, NYLON	
61	X-4917-254-1	FOOT ASSY	
62	3-703-685-21	SCREW (+BV 3X8)	
63	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
64	*4-875-455-31	(AEP,UK,WG,IT)..COVER(DIA.20), CAPACITOR	
65	4-870-539-00	PLATE, GROUND	
906	*1-631-091-11	PC BOARD, CONNECT (A)	
907	*1-631-092-11	PC BOARD, CONNECT (B)	
908	*1-631-093-11	PC BOARD, CONNECT (C)	

No.	Part No.	Description	Remarks
909	*A-4333-212-A	(AEP).....MOUNTED PCB,	MAIN
	*A-4333-213-A	(UK).....MOUNTED PCB,	MAIN
	*A-4333-214-A	(E,Saudi Arabia)...	MOUNTED PCB, MAIN
	*A-4333-215-A	(WG,IT).....MOUNTED PCB,	MAIN
910	*1-533-213-31	HOLDER, FUSE	
911	1-535-706-11	(AEP,UK,WG,IT)...PLUG, JUMPER	
912	△1-506-409-11	(Saudi Arabia)...	ADAPTOR, CONVERSION
	△1-526-565-00	(E).....AC PLUG ADAPTOR	
913	△1-551-188-XX	(E).....CORD, POWER	
	△1-555-750-00	(AEP,WG,Saudi Arabia,IT)...CORD, POWER	
	△1-556-035-00	(UK).....CORD, POWER	
914	*1-631-087-11	(E,Saudi Arabia)...	PC BOARD, POWER
915	*1-631-089-11	(UK)....PC BOARD, CONNECTOR	
CNJ901	△1-540-041-11	(E).....OUTLET, AC (NONPOLAR) (2P)	
CNJ901	△1-526-751-00	(UK).....OUTLET, AC	
CNJ901	△1-526-794-11	(AEP,WG,Saudi Arabia,IT)...	OUTLET, AC
CNJ902	△1-526-794-11	(AEP,WG,Saudi Arabia,IT)...	OUTLET, AC
F901	△1-532-259-00	FUSE, TIME-LAG (1.6A)	
F902	△1-532-259-00	(AEP,WG,E,Saudi Arabia,IT)	
		...FUSE, TIME-LAG (1.6A)	
F905	△1-532-203-00	FUSE, TIME-LAG (2A)	
F906	△1-532-203-00	FUSE, TIME-LAG (2A)	
T901	△1-449-724-11	(E,Saudi Arabia)...	TRANSFORMER, POWER
T901	△1-449-725-11	(AEP,WG,UK,IT).....TRANSFORMER, POWER	
VS901	△1-571-437-11	(E,Saudi Arabia)...	SWITCH, POWER
		VOLTAGE CHANGE (VOLTAGE SELECTOR)	

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF , PF: $\mu\mu F$.

RESISTORS



- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
 UA...: $\mu A...$, UPA...: $\mu PA...$,
 UPC...: μPC , UPD...: $\mu PD...$

The components in the **mark**  or dotted line  are critical for safe operation. Replace only with the specified part.

WG : West German

IT : Italian

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
901	*A-4333-217-A	MOUNTED PCB, PANEL	C110	1-162-288-31	(WG,IT)...CERAMIC 330
902	*1-631-084-11	PC BOARD, MICROPHONE	C111	1-124-257-00	ELECT 2.2MF
903	*1-631-090-11	PC BOARD, HP	C112	1-162-288-31	(WG,IT)...CERAMIC 330
904	*1-631-085-11	PC BOARD, REMOTE CONTROL	C113	1-124-257-00	ELECT 2.2MF
905	*1-631-086-11	(E,Saudi Arabia)...PC BOARD, SW	C114	1-162-288-31	(WG,IT)...CERAMIC 330
906	*1-631-091-11	PC BOARD, CONNECT (A)	C115	1-161-494-00	CERAMIC 0.022MF
907	*1-631-092-11	PC BOARD, CONNECT (B)	C151	1-162-282-31	(AEP,UK,E,Saudi Arab
908	*1-631-093-11	PC BOARD, CONNECT (C)	C151	1-162-288-31	(WG,IT)...CERAMIC 10
909	*A-4333-212-A	(AEP).....MOUNTED PCB, MAIN	C152	1-124-257-00	ELECT 2.2MF
	*A-4333-213-A	(UK).....MOUNTED PCB, MAIN	C153	1-162-282-31	(AEP,UK,E,Saudi Arab
	*A-4333-214-A	(E,Saudi Arabia)...MOUNTED PCB, MAIN	C153	1-162-288-31	(WG,IT)...CERAMIC 330
	*A-4333-215-A	(WG,IT).....MOUNTED PCB, MAIN	C154	1-162-219-31	CERAMIC 68PF
910	*1-533-213-31	HOLDER, FUSE	C155	1-123-382-00	ELECT 3.3MF
911	1-535-706-11	(AEP,UK,WG,IT)...PLUG, JUMPER	C156	1-130-480-00	MYLAR 0.0056M
912	Δ1-506-409-11	(Saudi Arabia)...ADAPTOR, CONVERSION	C157	1-130-473-00	MYLAR 0.0015M
	Δ1-526-565-00	(E).....AC PLUG ADAPTOR	C158	1-124-464-11	ELECT 0.22MF
913	Δ1-551-188-XX	(E)....CORD, POWER	C159	1-124-963-11	ELECT 33MF
	Δ1-555-750-00	(AEP,WG,Saudi Arabia,IT)..CORD, POWER	C160	1-162-288-31	(WG,IT)...CERAMIC 330
	Δ1-556-035-00	(UK)....CORD, POWER	C161	1-124-257-00	ELECT 2.2MF
914	*1-631-087-11	(E,Saudi Arabia)...PC BOARD, POWER	C162	1-162-288-31	(WG,IT)...CERAMIC 330
915	*1-631-089-11	(UK)...PC BOARD, CONNECTOR	C163	1-124-257-00	ELECT 2.2MF
BP901	*1-535-116-00	TERMINAL	C164	1-162-288-31	(WG,IT)...CERAMIC 330
BP902	*1-535-118-00	TERMINAL	C201	1-124-925-11	ELECT 2.2MF
BP903	*1-535-118-00	TERMINAL	C202	1-162-294-31	CERAMIC 0.001MF
BP904	*1-535-135-00	(E,Saudi Arabia)	C203	1-162-219-31	CERAMIC 68PF
		...BASE POST 14MM (10MM PITCH) 2P	C204	1-162-284-31	CERAMIC 150PF
BP905	*1-535-135-00	(E,Saudi Arabia)	C205	1-124-463-00	ELECT 0.1MF
		...BASE POST 14MM (10MM PITCH) 2P	C206	1-124-963-11	ELECT 33MF
BP906	*1-535-139-00	(UK)....BASE POST 19MM (10MM PITCH) 2P	C207	1-124-963-11	ELECT 33MF
BP907	*1-535-140-00	(E)....BASE POST 19MM (10MM PITCH) 3P	C301	1-162-288-31	(WG,IT)...CERAMIC 330
BP907	*1-535-141-00	(AEP,UK,WG,Saudi Arabia,IT)	C302	1-124-257-00	ELECT 2.2MF
		...BASE POST 19MM (10MM PITCH) 4P	C303	1-162-288-31	(WG,IT)...CERAMIC 330
C101	1-162-282-31	(AEP,UK,E,Saudi Arabia)	C304	1-161-494-00	CERAMIC 0.022MF
		...CERAMIC 100PF 10% 50V	C305	1-161-494-00	CERAMIC 0.022MF
C101	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V	C306	1-161-494-00	CERAMIC 0.022MF
C102	1-124-257-00	ELECT 2.2MF 20% 50V	C307	1-161-494-00	CERAMIC 0.022MF
C103	1-162-282-31	(AEP,UK,E,Saudi Arabia)	C308	1-161-494-00	CERAMIC 0.022MF
		...CERAMIC 100PF 10% 50V	C309	1-161-494-00	CERAMIC 0.022MF
C103	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V	C310	1-124-556-11	ELECT 2200MF
C104	1-162-219-31	CERAMIC 68PF 5% 50V	C311	1-161-494-00	CERAMIC 0.022MF
C105	1-123-382-00	ELECT 3.3MF 20% 50V	C312	1-124-902-00	ELECT 0.47MF
C106	1-130-480-00	MYLAR 0.0056MF 5% 50V			
C107	1-130-473-00	MYLAR 0.0015MF 5% 50V			
C108	1-124-464-11	ELECT 0.22MF 20% 50V			
C109	1-124-963-11	ELECT 33MF 20% 16V			

SECTION 4 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μ F, PF: μ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

WG: West Germany

IT: Italian

Ref.No.	Part No.	Description
901	*A-4333-217-A	MOUNTED PCB, PANEL
902	*1-631-084-11	PC BOARD, MICROPHONE
903	*1-631-090-11	PC BOARD, HP
904	*1-631-085-11	PC BOARD, REMOTE CONTROL
905	*1-631-086-11	(E,Saudi Arabia)...PC BOARD, SW
906	*1-631-091-11	PC BOARD, CONNECT (A)
907	*1-631-092-11	PC BOARD, CONNECT (B)
908	*1-631-093-11	PC BOARD, CONNECT (C)
909	*A-4333-212-A	(AEP).....MOUNTED PCB, MAIN
	*A-4333-213-A	(UK).....MOUNTED PCB, MAIN
	*A-4333-214-A	(E,Saudi Arabia)...MOUNTED PCB, MAIN
	*A-4333-215-A	(WG,IT).....MOUNTED PCB, MAIN
910	*1-533-213-31	HOLDER, FUSE
911	1-535-706-11	(AEP,UK,WG,IT)...PLUG, JUMPER
912	Δ 1-506-409-11	(Saudi Arabia)...ADAPTOR, CONVERSION
	Δ 1-526-565-00	(E).....AC PLUG ADAPTOR
913	Δ 1-551-188-XX	(E)....CORD, POWER
	Δ 1-555-750-00	(AEP,WG,Saudi Arabia,IT)..CORD, POWER
	Δ 1-556-035-00	(UK)....CORD, POWER
914	*1-631-087-11	(E,Saudi Arabia)...PC BOARD, POWER
915	*1-631-089-11	(UK)...PC BOARD, CONNECTOR
BP901	*1-535-116-00	TERMINAL
BP902	*1-535-118-00	TERMINAL
BP903	*1-535-118-00	TERMINAL
BP904	*1-535-135-00	(E,Saudi Arabia) ...BASE POST 14MM (10MM PITCH) 2P
BP905	*1-535-135-00	(E,Saudi Arabia) ...BASE POST 14MM (10MM PITCH) 2P
BP906	*1-535-139-00	(UK)...BASE POST 19MM (10MM PITCH) 2P
BP907	*1-535-140-00	(E)....BASE POST 19MM (10MM PITCH) 3P
BP907	*1-535-141-00	(AEP,UK,WG,Saudi Arabia,IT) ...BASE POST 19MM (10MM PITCH) 4P
C101	1-162-282-31	(AEP,UK,E,Saudi Arabia) ...CERAMIC 100PF 10% 50V
C101	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C102	1-124-257-00	ELECT 2.2MF 20% 50V
C103	1-162-282-31	(AEP,UK,E,Saudi Arabia) ...CERAMIC 100PF 10% 50V
C103	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C104	1-162-219-31	CERAMIC 68PF 5% 50V
C105	1-123-382-00	ELECT 3.3MF 20% 50V
C106	1-130-480-00	MYLAR 0.0056MF 5% 50V
C107	1-130-473-00	MYLAR 0.0015MF 5% 50V
C108	1-124-464-11	ELECT 0.22MF 20% 50V
C109	1-124-963-11	ELECT 33MF 20% 16V

Ref.No.	Part No.	Description
C110	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C111	1-124-257-00	ELECT 2.2MF 20% 50V
C112	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C113	1-124-257-00	ELECT 2.2MF 20% 50V
C114	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C115	1-161-494-00	CERAMIC 0.022MF 25V
C151	1-162-282-31	(AEP,UK,E,Saudi Arabia) ...CERAMIC 100PF 10% 50V
C151	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C152	1-124-257-00	ELECT 2.2MF 20% 50V
C153	1-162-282-31	(AEP,UK,E,Saudi Arabia) ...CERAMIC 100PF 10% 50V
C153	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C154	1-162-219-31	CERAMIC 68PF 5% 50V
C155	1-123-382-00	ELECT 3.3MF 20% 50V
C156	1-130-480-00	MYLAR 0.0056MF 5% 50V
C157	1-130-473-00	MYLAR 0.0015MF 5% 50V
C158	1-124-464-11	ELECT 0.22MF 20% 50V
C159	1-124-963-11	ELECT 33MF 20% 16V
C160	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C161	1-124-257-00	ELECT 2.2MF 20% 50V
C162	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C163	1-124-257-00	ELECT 2.2MF 20% 50V
C164	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C201	1-124-925-11	ELECT 2.2MF 20% 50V
C202	1-162-294-31	CERAMIC 0.001MF 10% 50V
C203	1-162-219-31	CERAMIC 68PF 5% 50V
C204	1-162-284-31	CERAMIC 150PF 10% 50V
C205	1-124-463-00	ELECT 0.1MF 20% 50V
C206	1-124-963-11	ELECT 33MF 20% 16V
C207	1-124-963-11	ELECT 33MF 20% 16V
C301	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C302	1-124-257-00	ELECT 2.2MF 20% 50V
C303	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C304	1-161-494-00	CERAMIC 0.022MF 25V
C305	1-161-494-00	CERAMIC 0.022MF 25V
C306	1-161-494-00	CERAMIC 0.022MF 25V
C307	1-161-494-00	CERAMIC 0.022MF 25V
C308	1-161-494-00	CERAMIC 0.022MF 25V
C309	1-161-494-00	CERAMIC 0.022MF 25V
C310	1-124-556-11	ELECT 2200MF 20% 16V
C311	1-161-494-00	CERAMIC 0.022MF 25V
C312	1-124-902-00	ELECT 0.47MF 20% 50V

Ref.No.	Part No.	Description
C313	1-161-494-00	CERAMIC 0.022MF 25V
C315	1-102-963-00	CERAMIC 33PF 5% 50V
C316	1-102-963-00	CERAMIC 33PF 5% 50V
C317	1-126-176-11	ELECT 220MF 20% 10V
C318	1-161-494-00	CERAMIC 0.022MF 25V
C319	1-161-494-00	CERAMIC 0.022MF 25V
C320	1-161-494-00	CERAMIC 0.022MF 25V
C321	1-161-494-00	CERAMIC 0.022MF 25V
C322	1-161-494-00	CERAMIC 0.022MF 25V
C323	1-124-446-11	ELECT 47MF 20% 10V
C324	1-161-494-00	CERAMIC 0.022MF 25V
C326	1-124-902-00	ELECT 0.47MF 20% 50V
C327	1-161-494-00	CERAMIC 0.022MF 25V
C329	1-124-963-11	ELECT 33MF 20% 16V
C330	1-124-963-11	ELECT 33MF 20% 16V
C331	1-161-494-00	CERAMIC 0.022MF 25V
C351	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C352	1-124-257-00	ELECT 2.2MF 20% 50V
C353	1-162-288-31	(WG,IT)...CERAMIC 330PF 10% 50V
C376	1-124-902-00	ELECT 0.47MF 20% 50V
C401	1-126-096-11	ELECT 10MF 20% 25V
C402	1-162-219-31	CERAMIC 68PF 5% 50V
C403	1-162-197-31	CERAMIC 6.8PF 10% 50V
C404	1-124-257-00	ELECT 2.2MF 20% 50V
C405	1-124-257-00	ELECT 2.2MF 20% 50V
C413	1-136-154-00	FILM 0.012MF 5% 50V
C414	1-136-154-00	FILM 0.012MF 5% 50V
C415	1-130-473-00	MYLAR 0.0015MF 5% 50V
C416	1-162-219-31	CERAMIC 68PF 5% 50V
C418	1-126-096-11	ELECT 10MF 20% 25V
C419	1-124-963-11	ELECT 33MF 20% 16V
C420	1-124-257-00	ELECT 2.2MF 20% 50V
C421	1-162-282-31	CERAMIC 100PF 10% 50V
C422	1-162-219-31	CERAMIC 68PF 5% 50V
C423	1-126-163-11	ELECT 4.7MF 20% 50V
C424	1-124-438-00	ELECT 1MF 20% 50V
C425	1-136-165-00	FILM 0.1MF 5% 50V
C426	1-124-257-00	ELECT 2.2MF 20% 50V
C451	1-126-096-11	ELECT 10MF 20% 25V
C452	1-162-219-31	CERAMIC 68PF 5% 50V
C453	1-162-197-31	CERAMIC 6.8PF 10% 50V
C454	1-124-257-00	ELECT 2.2MF 20% 50V
C455	1-124-257-00	ELECT 2.2MF 20% 50V
C463	1-136-154-00	FILM 0.012MF 5% 50V
C464	1-136-154-00	FILM 0.012MF 5% 50V
C465	1-130-473-00	MYLAR 0.0015MF 5% 50V
C466	1-162-219-31	CERAMIC 68PF 5% 50V
C468	1-126-096-11	ELECT 10MF 20% 25V
C469	1-124-963-11	ELECT 33MF 20% 16V
C470	1-124-257-00	ELECT 2.2MF 20% 50V
C471	1-162-282-31	CERAMIC 100PF 10% 50V
C472	1-124-963-11	ELECT 33MF 20% 16V
C473	1-126-163-11	ELECT 4.7MF 20% 50V
C474	1-124-438-00	ELECT 1MF 20% 50V
C475	1-136-165-00	FILM 0.1MF 5% 50V
C476	1-124-257-00	ELECT 2.2MF 20% 50V
C477	1-124-963-11	ELECT 33MF 20% 16V

Ref.No.	Part No.	Description
C478	1-162-219-31	CERAMIC 68PF 5% 50V
C479	1-124-963-11	ELECT 33MF 20% 16V
C480	1-124-963-11	ELECT 33MF 20% 16V
C502	1-162-282-31	CERAMIC 100PF 10% 50V
C503	1-126-101-11	ELECT 100MF 20% 16V
C504	1-162-286-31	CERAMIC 220PF 10% 50V
C506	1-124-910-11	ELECT 47MF 20% 35V
C507	1-124-122-11	ELECT 100MF 20% 50V
C508	1-124-122-11	ELECT 100MF 20% 50V
C509	1-124-915-11	(E,Saudi Arabia) ...ELECT 10MF 20% 63V
C509	1-126-233-11	(AEP,UK,WG,IT) ...ELECT 22MF 20% 50V
C510	1-136-163-00	FILM 0.068MF 5% 50V
C511	1-136-163-00	FILM 0.068MF 5% 50V
C514	1-136-163-00	(WG,IT)...FILM 0.068MF 5% 50V
C515	1-136-163-00	(WG,IT)...FILM 0.068MF 5% 50V
C516	1-161-379-00	(WG,IT)...CERAMIC 0.01MF 2% 16V
C552	1-162-282-31	CERAMIC 100PF 10% 50V
C553	1-126-101-11	ELECT 100MF 20% 16V
C554	1-162-286-31	CERAMIC 220PF 10% 50V
C556	1-124-910-11	ELECT 47MF 20% 35V
C560	1-136-163-00	FILM 0.068MF 5% 50V
C561	1-136-163-00	FILM 0.068MF 5% 50V
C564	1-136-163-00	(WG,IT)...FILM 0.068MF 5% 50V
C565	1-136-163-00	(WG,IT)...FILM 0.068MF 5% 50V
C566	1-161-379-00	(WG,IT)...CERAMIC 0.01MF 2% 16V
C707	1-126-176-11	ELECT 220MF 20% 6.3V
C708	1-126-176-11	ELECT 220MF 20% 6.3V
C709	1-124-443-00	ELECT 100MF 20% 6.3V
C710	1-124-464-11	ELECT 0.22MF 20% 50V
C711	1-124-257-00	ELECT 2.2MF 20% 50V
C901	1-102-355-00	CERAMIC 0.01MF 250V
C902	1-162-294-31	CERAMIC 0.001MF 10% 50V
C903	1-162-294-31	CERAMIC 0.001MF 10% 50V
C904	1-126-224-11	(AEP,UK,WG,IT) ...ELECT 4700MF 20% 42V
C904	1-126-258-51	(E,Saudi Arabia) ...ELECT 4700MF 20% 56V
C905	1-126-224-11	(AEP,UK,WG,IT) ...ELECT 4700MF 20% 42V
C905	1-126-258-51	(E,Saudi Arabia) ...ELECT 4700MF 20% 56V
C907	1-126-233-11	ELECT 22MF 20% 50V
C908	1-124-122-11	ELECT 100MF 20% 50V
C909	1-124-443-00	ELECT 100MF 20% 10V
C912	Δ 1-161-744-00	CERAMIC 0.01MF 400V
C914	1-124-557-11	ELECT 1000MF 20% 25V
C915	1-124-557-11	ELECT 1000MF 20% 25V
C918	1-126-101-11	(UK)...ELECT 100MF 20% 16V
C919	1-124-463-00	ELECT 0.1MF 20% 50V
C920	1-124-446-11	ELECT 47MF 20% 10V
C922	1-124-557-11	(E,Saudi Arabia) ...ELECT 1000MF 20% 25V
C923	1-124-912-11	ELECT 330MF 20% 50V
C924	1-126-101-11	ELECT 100MF 20% 16V

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description
C925	1-126-101-11	ELECT 100MF 20% 16V
C926	1-161-379-00	CERAMIC 0.01MF 30% 25V
C927	1-161-379-00	CERAMIC 0.01MF 30% 25V
C928	1-161-379-00	CERAMIC 0.01MF 30% 25V
C929	1-161-494-00	CERAMIC 0.022MF 25V
C930	1-124-438-00	ELECT 1MF 20% 50V
CN101	*1-566-858-11	SOCKET, CONNECTOR 11P(SYSTEM CONTROL 1)
CN304	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN305	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN308	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN309	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN310	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN311	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN312	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN314	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN315	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN316	*1-565-438-11	SOCKET, CONNECTOR (PCB) 10P
CN402	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN413	*1-565-439-11	PIN, CONNECTOR (PCB) 10P
CN501	*1-564-508-11	PLUG, CONNECTOR 5P
CN901	*1-566-859-11	SOCKET, CONNECTOR 15P(SYSTEM CONTROL 2)
CN903	*1-564-506-11	PLUG, CONNECTOR 3P
CN906	*1-566-210-11	(UK)...PIN, CONNECTOR 3P (OUT PUT)
CNJ901	△1-540-041-11	(E).....OUTLET, AC (NONPOLAR) (2P)
CNJ901	△1-526-751-00	(UK).....OUTLET, AC
CNJ901	△1-526-794-11	(AEP,WG,Saudi Arabia,IT)...OUTLET, AC
CNJ902	△1-526-794-11	(AEP,WG,Saudi Arabia,IT)...OUTLET, AC
D301	8-719-000-26	DIODE US1060M
D302	8-719-000-26	DIODE US1060M
D303	8-719-000-26	DIODE US1060M
D304	8-719-933-36	DIODE HZS6B1L
D305	8-719-000-26	DIODE US1060M
D306	8-719-310-42	DIODE SEL4225RM-D
D307	8-719-301-44	DIODE SEL2410E-D
D308	8-719-301-44	DIODE SEL2410E-D
D309	8-719-301-44	DIODE SEL2410E-D
D310	8-719-301-44	DIODE SEL2410E-D
D311	8-719-301-44	DIODE SEL2410E-D
D312	8-719-301-44	DIODE SEL2410E-D
D313	8-719-301-44	DIODE SEL2410E-D
D314	8-719-301-44	DIODE SEL2410E-D
D315	8-719-301-44	DIODE SEL2410E-D
D316	8-719-301-44	DIODE SEL2410E-D
D317	8-719-311-87	(E,Saudi Arabia)...DIODE SEL1222R-C
D401	8-719-311-86	DIODE SEL4825WMCD
D402	8-719-311-86	DIODE SEL4825WMCD
D703	8-719-000-26	DIODE US1060M
D704	8-719-000-26	DIODE US1060M
D705	8-719-000-26	DIODE US1060M
D706	8-719-000-26	DIODE US1060M
D707	8-719-000-26	DIODE US1060M
D708	8-719-200-77	DIODE 10E2N
D753	8-719-000-26	DIODE US1060M
D901	8-719-302-38	DIODE RBV-602-01
D902	8-719-200-77	DIODE 10E2N
D903	8-719-002-45	DIODE UZL-27M
D904	8-719-160-23	DIODE RD5.1FB2

Ref.No.	Part No.	Description
D905	8-719-200-77	DIODE 10E2N
D906	8-719-200-77	DIODE 10E2N
D907	8-719-200-77	DIODE 10E2N
D908	8-719-200-77	DIODE 10E2N
D909	8-719-200-77	(E,Saudi Arabia)...DIODE 10E2N
D910	8-719-200-77	(E,Saudi Arabia)...DIODE 10E2N
D911	8-719-000-26	(E,Saudi Arabia)...DIODE US1060M
D912	8-719-000-26	(E,Saudi Arabia)...DIODE US1060M
F901	△1-532-259-00	FUSE, TIME-LAG (1.6A)
F902	△1-532-259-00	(AEP,WG,E,Saudi Arabia,IT) ...FUSE, TIME-LAG (1.6A)
F905	△1-532-203-00	FUSE, TIME-LAG (2A)
F906	△1-532-203-00	FUSE, TIME-LAG (2A)
IC101	8-759-600-02	IC M5218L
IC201	8-759-106-41	IC UP4570C
IC301	8-759-800-37	IC LC4066BH
IC302	8-759-802-52	IC LC7818
IC303	8-759-632-31	IC M50721-127P
IC304	8-759-820-62	IC LB1639
IC305	8-749-920-83	IC GP1U52XB
IC401	8-759-106-41	IC UP4570C
IC402	8-759-106-41	IC UP4570C
IC403	8-759-106-41	IC UP4570C
IC501	8-749-900-78	(E,Saudi Arabia)...IC STK4192II
IC501	8-749-941-52	(AEP,UK,WG,IT)....IC STK4152II
IC702	8-759-111-68	IC UPC1237HA
IC901	8-759-604-32	IC M5F7810
IC902	8-759-604-50	IC M5F7910
IC903	8-759-604-33	(UK)...IC M5F7812
IC904	8-759-820-84	IC L78MR05
J101	1-565-320-11	JACK, PIN 6P (PHONO IN,CD IN,VIDEO/DAT OUT)
J102	1-565-320-11	JACK, PIN 6P (VIDEO/DAT IN,EQUALIZER OUT/IN)
J201	1-563-347-11	JACK (MIC)
J501	1-565-352-21	JACK, PIN 2P (SURROUND SPEAKER)
J502	1-568-018-11	JACK, LARGE TYPE 1P (HEADPHONES)
L501	*1-420-872-00	COIL, AIR CORE
L551	*1-420-872-00	COIL, AIR CORE
Q301	8-729-107-98	TRANSISTOR 2SC3622AL
Q303	8-729-900-63	TRANSISTOR DTA124ES
Q304	8-729-820-10	TRANSISTOR 2SA1317
Q305	8-729-806-34	TRANSISTOR 2SC3400
Q306	8-729-820-23	TRANSISTOR 2SC3330S
Q307	8-729-806-34	TRANSISTOR 2SC3400
Q308	8-729-900-63	TRANSISTOR DTA124ES
Q309	8-729-900-63	TRANSISTOR DTA124ES
Q310	8-729-820-23	TRANSISTOR 2SC3330S
Q311	8-729-820-10	TRANSISTOR 2SA1317
Q312	8-729-820-23	TRANSISTOR 2SC3330S
Q313	8-729-900-63	TRANSISTOR DTA124ES
Q314	8-729-900-63	TRANSISTOR DTA124ES
Q315	8-729-900-63	TRANSISTOR DTA124ES
Q316	8-729-900-63	TRANSISTOR DTA124ES
Q317	8-729-900-63	TRANSISTOR DTA124ES
Q318	8-729-806-34	TRANSISTOR 2SC3400
Q319	8-729-806-34	TRANSISTOR 2SC3400

The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				
Q320	8-729-806-34	TRANSISTOR	2SC3400			
Q321	8-729-806-34	TRANSISTOR	2SC3400			
Q322	8-729-806-34	TRANSISTOR	2SC3400			
Q351	8-729-107-98	TRANSISTOR	2SC3622AL			
Q401	8-729-224-63	TRANSISTOR	2SK246BL			
Q402	8-729-119-78	TRANSISTOR	2SC2785HFE			
Q451	8-729-224-63	TRANSISTOR	2SK246BL			
Q452	8-729-119-78	TRANSISTOR	2SC2785HFE			
Q711	8-729-108-06	TRANSISTOR	2SC1841			
Q712	8-729-900-63	TRANSISTOR	DTA124ES			
Q761	8-729-108-06	TRANSISTOR	2SC1841			
Q901	8-729-920-91	TRANSISTOR	2SB1187F			
Q902	8-729-820-23	(E,Saudi Arabia)...TRANSISTOR	2SC3330S			
Q903	8-729-806-34	(E,Saudi Arabia)...TRANSISTOR	2SC3400			
Q904	8-729-806-34	(E,Saudi Arabia)...TRANSISTOR	2SC3400			
R101	1-249-417-11	(WG,IT)...CARBON	1K	5%	1/4W	
R103	1-249-417-11	CARBON	1K	5%	1/4W	
R105	1-247-832-11	CARBON	1.1K	5%	1/4W	
R106	1-247-897-11	CARBON	560K	5%	1/4W	
R107	1-249-437-11	CARBON	47K	5%	1/4W	
R108	1-249-405-11	CARBON	100	5%	1/4W	
R109	1-249-441-11	CARBON	100K	5%	1/4W	
R110	1-249-417-11	CARBON	1K	5%	1/4W	
R112	1-249-441-11	CARBON	100K	5%	1/4W	
R113	1-249-417-11	CARBON	1K	5%	1/4W	
R114	1-249-441-11	CARBON	100K	5%	1/4W	
R115	1-249-417-11	CARBON	1K	5%	1/4W	
R117	1-249-441-11	CARBON	100K	5%	1/4W	
R119	1-249-441-11	CARBON	100K	5%	1/4W	
R121	1-249-441-11	CARBON	100K	5%	1/4W	
R122	1-249-417-11	CARBON	1K	5%	1/4W	
R123	1-249-441-11	CARBON	100K	5%	1/4W	
R124	1-249-437-11	CARBON	47K	5%	1/4W	
R151	1-249-417-11	(WG,IT)...CARBON	1K	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R155	1-247-832-11	CARBON	1.1K	5%	1/4W	
R156	1-247-897-11	CARBON	560K	5%	1/4W	
R157	1-249-437-11	CARBON	47K	5%	1/4W	
R158	1-249-405-11	CARBON	100	5%	1/4W	
R159	1-249-441-11	CARBON	100K	5%	1/4W	
R160	1-249-417-11	CARBON	1K	5%	1/4W	
R162	1-249-441-11	CARBON	100K	5%	1/4W	
R163	1-249-417-11	CARBON	1K	5%	1/4W	
R164	1-249-441-11	CARBON	100K	5%	1/4W	
R165	1-249-417-11	CARBON	1K	5%	1/4W	
R167	1-249-441-11	CARBON	100K	5%	1/4W	
R169	1-249-441-11	CARBON	100K	5%	1/4W	
R171	1-249-441-11	CARBON	100K	5%	1/4W	
R172	1-249-417-11	CARBON	1K	5%	1/4W	
R173	1-249-441-11	CARBON	100K	5%	1/4W	
R174	1-249-437-11	CARBON	47K	5%	1/4W	
R201	1-249-417-11	CARBON	1K	5%	1/4W	
R202	1-249-429-11	CARBON	10K	5%	1/4W	
R203	1-249-412-11	CARBON	390	5%	1/4W	
R204	1-249-441-11	CARBON	100K	5%	1/4W	
R205	1-249-416-11	CARBON	820	5%	1/4W	
R301	1-249-417-11	CARBON	1K	5%	1/4W	
R302	1-249-441-11	CARBON	100K	5%	1/4W	
R303	1-249-417-11	CARBON	1K	5%	1/4W	
R305	1-249-441-11	CARBON	100K	5%	1/4W	
R306	1-249-433-11	CARBON	22K	5%	1/4W	
R307	1-249-433-11	CARBON	22K	5%	1/4W	
R308	1-249-433-11	CARBON	22K	5%	1/4W	
R309	1-249-433-11	CARBON	22K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-247-901-11	CARBON	820K	5%	1/4W	
R312	1-249-441-11	CARBON	100K	5%	1/4W	
R313	1-249-441-11	CARBON	100K	5%	1/4W	
R314	1-249-433-11	CARBON	22K	5%	1/4W	
R315	1-249-417-11	CARBON	1K	5%	1/4W	
R316	1-249-441-11	CARBON	100K	5%	1/4W	
R317	1-249-433-11	CARBON	22K	5%	1/4W	
R318	1-247-903-00	CARBON	1M	5%	1/4W	
R319	1-247-903-00	CARBON	1M	5%	1/4W	
R320	1-249-405-11	CARBON	100	5%	1/4W	
R321	1-249-405-11	CARBON	100	5%	1/4W	
R322	1-249-433-11	CARBON	22K	5%	1/4W	
R323	1-249-425-11	CARBON	4.7K	5%	1/4W	
R324	1-249-429-11	CARBON	10K	5%	1/4W	
R325	1-249-433-11	CARBON	22K	5%	1/4W	
R326	1-249-433-11	CARBON	22K	5%	1/4W	
R327	1-249-433-11	CARBON	22K	5%	1/4W	
R328	1-249-433-11	CARBON	22K	5%	1/4W	
R329	1-249-413-11	CARBON	470	5%	1/4W	
R330	1-249-412-11	CARBON	390	5%	1/4W	
R331	1-249-412-11	CARBON	390	5%	1/4W	
R332	1-249-412-11	CARBON	390	5%	1/4W	
R333	1-249-412-11	CARBON	390	5%	1/4W	
R334	1-249-412-11	CARBON	390	5%	1/4W	
R335	1-249-412-11	CARBON	390	5%	1/4W	
R336	1-249-433-11	CARBON	22K	5%	1/4W	
R337	1-249-433-11	CARBON	22K	5%	1/4W	
R338	1-249-433-11	CARBON	22K	5%	1/4W	
R339	1-249-433-11	CARBON	22K	5%	1/4W	
R340	1-249-433-11	CARBON	22K	5%	1/4W	
R341	1-249-425-11	CARBON	4.7K	5%	1/4W	
R342	1-249-425-11	CARBON	4.7K	5%	1/4W	
R343	1-249-431-11	CARBON	15K	5%	1/4W	
R344	1-249-410-11	(E,Saudi Arabia) ...CARBON	270	5%	1/4W	
R345	1-249-441-11	CARBON	100K	5%	1/4W	
R346	1-249-441-11	CARBON	100K	5%	1/4W	
R347	1-249-441-11	CARBON	100K	5%	1/4W	
R348	1-249-441-11	CARBON	100K	5%	1/4W	
R349	1-249-433-11	CARBON	22K	5%	1/4W	
R350	1-249-433-11	CARBON	22K	5%	1/4W	
R351	1-249-417-11	CARBON	1K	5%	1/4W	
R352	1-249-441-11	CARBON	100K	5%	1/4W	
R353	1-249-417-11	CARBON	1K	5%	1/4W	
R355	1-249-411-11	CARBON	100K	5%	1/4W	
R356	1-249-433-11	CARBON	22K	5%	1/4W	
R357	1-249-435-11	CARBON	33K	5%	1/4W	

Ref.No.	Part No.	Description				
R401	1-249-437-11	CARBON	47K	5%	1/4W	
R402	1-249-437-11	CARBON	47K	5%	1/4W	
R403	1-249-434-11	CARBON	27K	5%	1/4W	
R404	1-249-434-11	CARBON	27K	5%	1/4W	
R405	1-249-430-11	CARBON	12K	5%	1/4W	
R406	1-247-903-00	CARBON	1M	5%	1/4W	
R416	1-249-406-11	CARBON	120	5%	1/4W	
R419	1-249-413-11	CARBON	470	5%	1/4W	
R420	1-249-406-11	CARBON	120	5%	1/4W	
R421	1-249-441-11	CARBON	100K	5%	1/4W	
R422	1-249-435-11	CARBON	33K	5%	1/4W	
R423	1-249-435-11	CARBON	33K	5%	1/4W	
R425	1-249-428-11	CARBON	8.2K	5%	1/4W	
R426	1-249-425-11	CARBON	4.7K	5%	1/4W	
R427	1-249-417-11	CARBON	1K	5%	1/4W	
R428	1-249-441-11	CARBON	100K	5%	1/4W	
R429	1-249-425-11	CARBON	4.7K	5%	1/4W	
R430	1-249-441-11	CARBON	100K	5%	1/4W	
R431	1-249-417-11	CARBON	1K	5%	1/4W	
R432	1-249-439-11	CARBON	68K	5%	1/4W	
R433	1-249-426-11	CARBON	5.6K	5%	1/4W	
R434	1-249-412-11	CARBON	390	5%	1/4W	
R435	1-247-887-00	CARBON	220K	5%	1/4W	
R451	1-249-437-11	CARBON	47K	5%	1/4W	
R452	1-249-437-11	CARBON	47K	5%	1/4W	
R453	1-249-434-11	CARBON	27K	5%	1/4W	
R454	1-249-434-11	CARBON	27K	5%	1/4W	
R455	1-249-430-11	CARBON	12K	5%	1/4W	
R456	1-247-903-00	CARBON	1M	5%	1/4W	
R471	1-249-441-11	CARBON	100K	5%	1/4W	
R472	1-249-435-11	CARBON	33K	5%	1/4W	
R473	1-249-435-11	CARBON	33K	5%	1/4W	
R475	1-249-428-11	CARBON	8.2K	5%	1/4W	
R476	1-249-425-11	CARBON	4.7K	5%	1/4W	
R477	1-249-417-11	CARBON	1K	5%	1/4W	
R478	1-249-441-11	CARBON	100K	5%	1/4W	
R479	1-249-425-11	CARBON	4.7K	5%	1/4W	
R480	1-249-441-11	CARBON	100K	5%	1/4W	
R481	1-249-417-11	CARBON	1K	5%	1/4W	
R482	1-249-439-11	CARBON	68K	5%	1/4W	
R483	1-249-426-11	CARBON	5.6K	5%	1/4W	
R484	1-249-412-11	CARBON	390	5%	1/4W	
R501	1-247-713-11	CARBON	1K	5%	1/4W	
R502	1-249-438-11	CARBON	56K	5%	1/4W	
R503	1-249-415-11	CARBON	680	5%	1/4W	
R504	1-249-438-11	CARBON	56K	5%	1/4W	
R505	1-247-758-11	(E,Saudi Arabia)				
		...CARBON	3.3K	5%	1/2W	
R505	1-247-756-11	(AEP,UK,WG,IT)				
		...CARBON	2.2K	5%	1/2W	
R506	1-247-756-11	(AEP,UK,WG,IT)				
		...CARBON	2.2K	5%	1/2W	
R506	1-247-758-11	(E,Saudi Arabia)				
		...CARBON	3.3K	5%	1/2W	
R507	△1-212-881-11	FUSIBLE	100	5%	1/4W	F
R508	△1-212-881-11	FUSIBLE	100	5%	1/4W	F
R510	1-247-752-11	CARBON	1K	5%	1/2W	
R511	1-247-752-11	CARBON	1K	5%	1/2W	
R512	1-217-156-00	METAL PLATE	0.22	10%	5W	
R514	1-247-727-11	CARBON	10	5%	1/2W	

Ref.No.	Part No.	Description				
R515	1-247-727-11	CARBON	10	5%	1/2W	
R516	1-247-727-11	(WG,IT)...CARBON	10	5%	1/2W	
R517	1-249-433-11	CARBON	22K	5%	1/4W	
R518	1-247-746-11	CARBON	390	5%	1/2W	
R551	1-247-713-11	CARBON	1K	5%	1/4W	
R552	1-249-438-11	CARBON	56K	5%	1/4W	
R553	1-249-415-11	CARBON	680	5%	1/4W	
R554	1-249-438-11	CARBON	56K	5%	1/4W	
R555	1-247-756-11	(AEP,UK,WG,IT)				
		...CARBON	2.2K	5%	1/2W	
R555	1-247-758-11	(E,Saudi Arabia)				
		...CARBON	3.3K	5%	1/2W	
R556	1-247-756-11	(AEP,UK,WG,IT)				
		...CARBON	2.2K	5%	1/2W	
R556	1-247-758-11	(E,Saudi Arabia)				
		...CARBON	3.3K	5%	1/2W	
R566	1-247-727-11	(WG,IT)...CARBON	10	5%	1/2W	
R562	1-217-156-00	METAL PLATE	0.22	10%	5W	
R564	1-247-727-11	CARBON	10	5%	1/2W	
R565	1-247-727-11	CARBON	10	5%	1/2W	
R567	1-249-433-11	CARBON	22K	5%	1/4W	
R568	1-247-746-11	CARBON	390	5%	1/2W	
R722	1-249-417-11	CARBON	1K	5%	1/4W	
R723	1-249-431-11	CARBON	15K	5%	1/4W	
R724	1-249-441-11	CARBON	100K	5%	1/4W	
R725	1-249-438-11	CARBON	56K	5%	1/4W	
R726	1-249-429-11	CARBON	10K	5%	1/4W	
R727	1-249-441-11	CARBON	100K	5%	1/4W	
R729	1-249-434-11	CARBON	27K	5%	1/4W	
R730	1-247-764-11	CARBON	10K	5%	1/2W	
R731	△1-215-891-11	(E,Saudi Arabia)				
		...METAL OXIDE	680	5%	2W	F
R731	△1-216-455-11	(AEP,UK,WG,IT)				
		...METAL OXIDE	560	5%	2W	F
R732	1-249-425-11	CARBON	4.7K	5%	1/4W	
R733	1-247-903-00	CARBON	1M	5%	1/4W	
R734	1-249-431-11	CARBON	15K	5%	1/4W	
R772	1-249-417-11	CARBON	1K	5%	1/4W	
R773	1-249-431-11	CARBON	15K	5%	1/4W	
R774	1-249-441-11	CARBON	100K	5%	1/4W	
R775	1-249-437-11	CARBON	47K	5%	1/4W	
R901	△1-217-469-00	FUSIBLE	1	5%	1W	F
R902	1-247-761-11	CARBON	5.6K	5%	1/2W	
R903	1-249-422-11	CARBON	2.7K	5%	1/4W	
R904	△1-217-469-00	FUSIBLE	1	5%	1W	F
R905	△1-217-469-00	FUSIBLE	1	5%	1W	F
R907	1-249-423-11	(E,Saudi Arabia)				
		...CARBON	3.3K	5%	1/4W	
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R910	1-217-156-00	(E,Saudi Arabia)				
		...METAL PLATE	0.22	10%	5W	
R911	1-217-156-00	(E,Saudi Arabia)				
		...METAL PLATE	0.22	10%	5W	
R912	1-217-156-00	(E,Saudi Arabia)				
		...METAL PLATE	0.22	10%	5W	

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Ref.No.	Part No.	Description
R913	1-217-156-00	(E,Saudi Arabia) ...METAL PLATE 0.22 10% 5W
R914	△1-217-469-00	FUSIBLE 1 5% 1W F
RV201	1-237-883-11	RES, VAR, CARBON 50K (MIC LEVEL)
RV401	1-237-881-11	RES, VAR, CARBON 100K/100K (BASS)
RV402	1-237-881-11	RES, VAR, CARBON 100K/100K (TREBLE)
RV403	1-237-882-11	RES, VAR, CARBON 100K (BALANCE)
RV404	1-237-884-11	RES, VAR, CARBON 100K/100K (including motor)(VOLUME)
RY701	1-515-501-00	RELAY
RY901	1-515-720-11	RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S302	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S303	1-554-303-21	SWITCH, KEY BOARD (CD)
S304	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S305	1-554-303-21	SWITCH, KEY BOARD (VIDEO/DAT)
S306	1-554-303-21	SWITCH, KEY BOARD (EQ REC)
S307	1-552-412-00	(E,Saudi Arabia) ...SWITCH, KEY BOARD (SYSTEM POWER)
S401	1-571-292-11	SWITCH, PUSH (1 KEY)(SURROUND)
S402	1-571-292-11	(AEP,WG,UK,IT)....SWITCH, PUSH (1 KEY)(DBFB)
S402	1-571-292-11	(E,Saudi Arabia)...SWITCH, PUSH (1 KEY)(SAT)
S901	△1-554-920-21	(AEP,UK,WG,IT).... SWITCH, PUSH (1 KEY)(AC POWER)(POWER)
T901	△1-449-724-11	(E,Saudi Arabia)...TRANSFORMER, POWER
T901	△1-449-725-11	(AEP,WG,UK,IT)....TRANSFORMER, POWER
T902	△1-449-723-11	(E,Saudi Arabia)...TRANSFORMER, POWER
TB501	1-536-705-00	TERMINAL BOARD (SP)(SPEAKER)
VS901	△1-571-437-11	(E,Saudi Arabia)...SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)
XT301	1-567-839-11	VIBRATOR, CERAMIC 3MHz

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mark △ or dotted line with mark
△ are critical for safety.
Replace only with part number
specified.